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THE HARVARD SCHOOL OF PUBLIC HEALTH

55 SHATTUCK STREET, BOSTON, MASS.

INCLUDING
COURSES OF INSTRUCTION
FOR 1939-40



PUBLISHED BY HARVARD UNIVERSITY

OFFICIAL REGISTER OF HARVARD UNIVERSITY

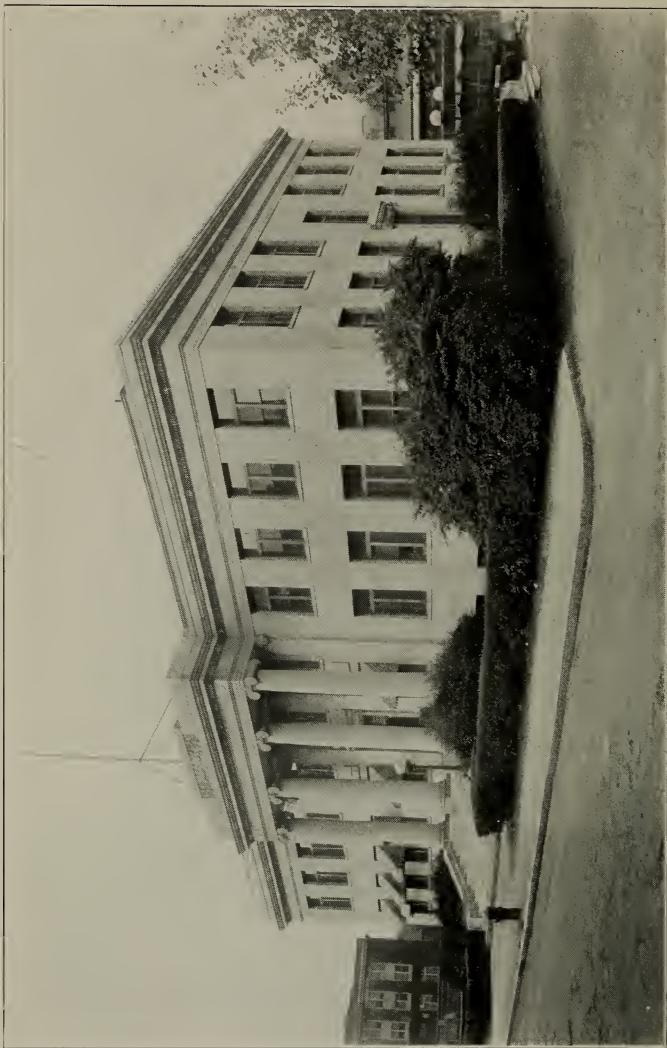
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These publications include the reports of the president and of the treasurer; the general catalogue issue; the announcements of the College and the several professional schools of the University; the courses of instruction; the pamphlets of the several departments; and the like.

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HARVARD SCHOOL OF PUBLIC HEALTH

ANNOUNCEMENT
OF THE
HARVARD SCHOOL OF
PUBLIC HEALTH

55 SHATTUCK STREET, BOSTON, MASS.

OF
HARVARD UNIVERSITY



1939

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CALENDAR

1939

<i>Sept. 22, Friday.</i>	Registration of students.
<i>Sept. 25, Monday.</i>	ACADEMIC YEAR BEGINS.
<i>Sept. 27, Wednesday.</i>	Payment of the first instalment of the tuition fee and one-half the medical and infirmary fee is required on this date.
<i>Oct. 12, Thursday.</i>	Columbus Day: a holiday.
<i>Nov. 11, Saturday.</i>	Armistice Day: a holiday.
<i>Nov. 29, Wednesday.</i>	Payment of the second instalment of the tuition fee is required on or before this date.
<i>Nov. 30, Thursday.</i>	Thanksgiving Day: a holiday.

RECESS FROM DEC. 23, 1939 TO JAN. 2, 1940, INCLUSIVE

1940

<i>Jan. 1, Monday.</i>	Last day for receiving theses for February degrees.
<i>Jan. 29, Monday.</i>	SECOND HALF-YEAR BEGINS.
<i>Jan. 30, Tuesday.</i>	Payment of the third instalment of the tuition fee and one-half the medical and infirmary fee is required on or before this date.
<i>Feb. 22, Thursday.</i>	Washington's Birthday: a holiday.

RECESS FROM MARCH 31 TO APRIL 7, INCLUSIVE

<i>April 19, Friday.</i>	Patriots' Day: a holiday.
<i>April 30, Tuesday.</i>	Payment of the fourth instalment of the tuition fee is required on or before this date.
<i>May 1, Wednesday.</i>	Last day for receiving theses for June degrees.
<i>May 30, Thursday.</i>	Memorial Day: a holiday.
<i>June 20, Thursday.</i>	COMMENCEMENT.

SUMMER VACATION, FROM COMMENCEMENT TO SEPTEMBER 22, INCLUSIVE

In order to insure equal periods of time for the various courses, the following division of the academic year has been arbitrarily made:

<i>Mon. Sept. 25-Sat. Oct. 21</i>	OCTOBER
<i>Mon. Oct. 23-Sat. Nov. 18</i>	NOVEMBER
<i>Mon. Nov. 20-Fri. Dec. 22</i>	DECEMBER ¹
<i>Wed. Jan. 3-Sat. Jan. 27</i>	JANUARY
<i>Mon. Jan. 29-Sat. Feb. 24</i>	FEBRUARY
<i>Mon. Feb. 26-Sat. Mar. 23</i>	MARCH
<i>Mon. Mar. 25-Sat. April 27</i>	APRIL ²
<i>Mon. April 29-Sat. May 25</i>	MAY

¹ Christmas vacation from Dec. 23, 1939, to Jan. 2, 1940, inclusive.

² Spring recess from March 31 to April 7, 1940, inclusive.

THE PRESIDENT AND FELLOWS OF HARVARD COLLEGE

This Board is commonly known as the CORPORATION.

PRESIDENT

JAMES BRYANT CONANT, A.B., Ph.D., LL.D., S.D., L.H.D., D.C.L.
17 Quincy St., Cambridge

FELLOWS

HENRY LEE SHATTUCK, A.B., LL.B., LL.D.
50 Federal St., Boston

ROGER IRVING LEE, A.B., M.D. 264 Beacon St., Boston

GRENVILLE CLARK, A.B., LL.B. 31 Nassau St., New York, N.Y.

CHARLES ALLERTON COOLIDGE, A.B., LL.B.
50 Federal St., Boston

HENRY JAMES, A.B., LL.B., LL.D.
522 Fifth Ave., New York, N.Y.

TREASURER

WILLIAM HENRY CLAFLIN, JR., A.B. 24 Milk St., Boston

SECRETARY TO THE CORPORATION

JEROME DAVIS GREENE, A.M., LL.D.
10 University Hall, Cambridge

THE BOARD OF OVERSEERS

The PRESIDENT and the TREASURER of the University, *ex officio*, and the following persons by election:—

1940*

CHARLES WARREN, A.M., LL.D.

710 Mills Building, Washington, D. C.

JAMES MADISON MORTON, JR., A.M., LL.B.

United States Courts, Boston

ALBERT FRANCIS BIGELOW, A.B., LL.B.

211 Congress St., Boston

CHARLES ELLIOTT PERKINS, A.B.

257 La Arcada Building, Santa Barbara, Calif.

SAMUEL CABOT, A.B.

241 Perkins St., Jamaica Plain

1941

GEORGE THOMAS MOORE, S.B., Ph.D.

Missouri Botanical Garden, St. Louis, Mo.

WILLIAM RICHARDS CASTLE, A.B., LL.D., D.C.L.

2200 S St., N.W., Washington, D.C.

LEVERETT SALTONSTALL, A.B., LL.B., LL.D.

82 Devonshire St., Boston

HENRY STURGIS MORGAN, A.B.

2 Wall Street, New York, N.Y.

BLISS PERRY, A.M., L.H.D., Litt.D., LL.D.

5 Clement Circle, Cambridge

1942

AUGUSTUS NOBLE HAND, A.M., LL.B., LL.D.

U. S. Circuit Court of Appeals, New York, N. Y.

ELLERY SEDGWICK, A.B., Litt.D.

8 Arlington St., Boston

ROBERT HAYDOCK HALLOWELL, A.B.

60 State St., Boston

* The term expires, in each case, on Commencement Day of the year indicated.

CHANNING FROTHINGHAM, A.B., M.D.
1153 Centre St., Jamaica Plain

GEORGE HAROLD EDGELL, A.B., Ph.D.
Museum of Fine Arts, Boston

1943

JULIAN WILLIAM MACK, LL.B.
2302 U. S. Court House, New York, N. Y.

CHARLES FRANCIS ADAMS, A.B., LL.B., LL.D.
15 State St., Boston

JAMES DEWOLF PERRY, A.B., S.T.D., D.D., LL.D.
10 Brown St., Providence, R. I.

JOHN STEWART BRYAN, A.M., LL.B., Litt.D., LL.D.
% The News Leader, Richmond, Va.

GEORGE PEABODY GARDNER, JR., A.B.
10 Post Office Sq., Boston

1944

GEORGE RUBLEE, A.B., LL.B., LL.D.
701 Union Trust Bldg., Washington, D.C.

LANGDON PARKER MARVIN, A.M., LL.B.
48 Wall St., New York, N. Y.

ROBERT FROST, A.M., L.H.D., Litt.D.
% Professor Theodore Morrison, 9 Avon St., Cambridge

HENRY PARKMAN, JR., A.M. 11 Beacon St., Boston

LLOYD KIRKHAM GARRISON, A.B., LL.B.
University of Wisconsin, Madison, Wis.

SECRETARY OF THE BOARD OF OVERSEERS, *Emeritus*

WINTHROP HOWLAND WADE, A.M., LL.B.
50 Congress St., Boston

SECRETARY OF THE BOARD OF OVERSEERS

JEROME DAVIS GREENE, A.M., LL.D.
10 University Hall, Cambridge

ADMINISTRATIVE OFFICERS

President: JAMES B. CONANT, A.B., Ph.D., LL.D., S.D., L.H.D., D.C.L.
Office, 5 University Hall, Cambridge.

Dean: CECIL K. DRINKER, S.B., M.D., S.D.
Office, School of Public Health, 55 Shattuck Street, Boston.

Assistant Dean: EDWARD G. HUBER, A.B., M.D., Dr.P.H.
Office, School of Public Health, 55 Shattuck Street, Boston.

Secretary: MRS. MARGARET G. BARNABY, A.B.
Office, School of Public Health, 55 Shattuck Street, Boston.

ADMINISTRATIVE BOARD

President JAMES B. CONANT, A.B., Ph.D., LL.D., S.D., L.H.D., D.C.L.
(*ex officio*).

CECIL K. DRINKER, S.B., M.D., S.D., *Dean*, and *Professor of Physiology*.

EDWIN B. WILSON, A.B., Ph.D., *Professor of Vital Statistics*.

HANS ZINSSER, A.M., M.D., S.D., *Professor of Bacteriology*.

EDWARD G. HUBER, A.B., M.D., Dr.P.H., *Assistant Dean*, and *Assistant Professor of Public Health Administration*.

JOHN E. GORDON, S.B., Ph.D., M.D., *Professor of Preventive Medicine and Epidemiology*.

COMMITTEE ON ADMISSIONS

LEROY D. FOTHERGILL, *Chairman*; CECIL K. DRINKER, CARL R. DOERING, EDWARD G. HUBER.

THE HARVARD SCHOOL OF PUBLIC HEALTH

HISTORICAL STATEMENT

THE HARVARD SCHOOL OF PUBLIC HEALTH first gave instruction to students in the academic year 1922-23. For many years activity in public health had been rapidly increasing in Harvard University. The influence of the University upon public health, through the pioneering and long-continued efforts of Dr. Henry P. Walcott, for many years senior member of the Harvard Corporation, was important and far-reaching. Courses in the various departments had been gradually developed to meet the need for men trained to conserve public health. The field of public health is so broad that it is not strange that this School did not find its origin in any one department. The records show certain important steps in what has been essentially a gradual development. In 1909 a department of Preventive Medicine and Hygiene was established in the Medical School. The degree of Doctor of Public Health was first conferred in 1911. In this same year a department of Sanitary Engineering was inaugurated in the Engineering School. In 1913 a department of Tropical Medicine was formed. In 1918 a Division of Industrial Hygiene, with clinical and laboratory facilities, was organized in the Harvard Medical School.

Besides these activities which were directly concerned with the training of men for public health work, research was being carried on in the regular departments of the Harvard Medical School in Bacteriology, Pathology, Parasitology, Physiology, Biochemistry, and others, which had a less direct but very real bearing on the development of the science of public health. On analysis it appeared that there were many activities under the various faculties of Harvard University, besides those of Medicine and Engineering, that had some bearing on public health. Under the Faculty of Arts and Sciences there were many courses, such as those in Physics, Chemistry, Zoölogy, Social Ethics, etc., which formed in certain cases important parts of the training of individuals for work in public health. In addition, there had been established in 1914, under the Faculty of Arts and Sciences, a department of Hygiene, which undertook the supervision of the health of the students in its broadest aspect. This department had collected much data of considerable value in public health.

In 1913 the "Harvard-Technology" School of Public Health was organized. It was under the joint management of Harvard University

and the Massachusetts Institute of Technology. This pioneer School continued to operate until the fall of 1922, when it was superseded by the new Harvard School of Public Health. However, the Massachusetts Institute of Technology continues to coöperate with the Harvard School of Public Health and also offers courses in public health through its department of Biology and Public Health.

As a result of these activities, the University found itself in possession of a substantial nucleus upon which to erect a new School of Public Health of larger scope, and in 1921 received from the Rockefeller Foundation a generous endowment for this purpose, known as the Henry P. Walcott Fund of Harvard University. This gift made it possible: first, to correlate and to enlarge the various departments already existing, such as Preventive Medicine and Hygiene, Bacteriology, Sanitary Engineering, Tropical Medicine, Parasitology, and Industrial Hygiene; second, to create a department of Vital Statistics and to develop new special fields of instruction, such as Public Health Administration, Child Hygiene, Mental Hygiene, Communicable Diseases, and Ventilation and Illumination; and lastly, to purchase a building, standing on land adjacent to that occupied by the Medical School, in which to house the administration and the various groups concerned with the work of public health.

GENERAL STATEMENT

PURPOSE

The practice of public health is founded upon a broad knowledge of Public Health Administration, Epidemiology, Sanitation and Vital Statistics. All other subjects constitute specialities within these four fields. It is the object of the School to provide the scientific groundwork which underlies efficient health administration, together with some personal acquaintance of modern public health procedures of the best type. To this end lectures, field surveys, hospital exercises and laboratory work are offered by members of the Faculty and by special instructors actively engaged in public health work. Students may thus prepare themselves for careers in teaching, administrative, field or laboratory positions, while special opportunity is offered to those who desire to contribute to knowledge through research or field investigations.

FACILITIES

The School of Public Health is located at 55 Shattuck Street, Boston. The building, formerly occupied by the Infants' Hospital, stands on land adjacent to that occupied by the Medical School and in close proximity

to the Peter Bent Brigham Hospital, the Children's Hospital, the Collis P. Huntington Memorial Hospital, and the Lying-in Hospital. The Antitoxin and Vaccine Laboratory of the Massachusetts Department of Public Health is within a comparatively short distance of the School. The Boston Psychopathic Hospital is also within a few blocks. Thus the School of Public Health, though a definite entity, is an integral part of a great medical center with splendid facilities for development of the teaching of the theory and practice of public health. Certain members of the Faculty of the School are also members of the Faculty of Medicine, and the Library, laboratory facilities and hospitals are utilized by both Schools to great mutual advantage. In Cambridge the graduate departments of the University offer opportunities for work in certain fields of special interest to public health students. For example, students may elect courses in sociology, business administration, the theory of government, common law, sanitary engineering and other subjects.

Various types of well organized public health activities lie within a short distance of the School. These include health departments of cities that are residential in character, small cities with a single large industry, and organized rural health districts. Close affiliation is maintained between the School and the State Department of Public Health, thus assuring students an opportunity not only to observe but actually to participate in state health department activities under competent direction. The Boston City Health Department has a fully developed system of Health Units, giving opportunity to study decentralized health organization and the coöperative activities of voluntary and official health and welfare agencies. The Health Department of the City of Newton, whose health officer is on the teaching staff of the School, has been developed as a special training ground for students of local public health administration in all its phases.

Hospitals and clinics affiliated with the School of Public Health offer facilities for training in child hygiene, tuberculosis control, treatment of contagious diseases of childhood, care of mental defectives, rehabilitation of crippled children, correction of dental defects, and other types of activity which relate directly to the promotion of health and social welfare. Opportunity is also offered for training in hospital administration under competent direction.

Boston being the center of a great industrial metropolitan area, students have opportunity to observe at first hand all the public health problems that large industrial populations must face, while the medical and technical personnel of selected industrial establishments offer training in industrial hygiene.

Non-official health organizations such as the Boston Health League, the Community Health Association with its large visiting nurse pro-

gram, the Nutrition Clinic of the Boston Dispensary, the Judge Baker Foundation for the study of delinquency, the Massachusetts Tuberculosis Association, the School of Public Health Nursing and the School for Social Service of Simmons College, as well as other types of organizations actively engaged in public health or allied activities, offer opportunities to students in the School.

ADMISSION REQUIREMENTS

Candidates for admission to the School must satisfy the Committee on Admissions of their academic fitness. The mere record of courses completed is not sufficient evidence of the fitness of a prospective student. The Committee may require further evidence of present ability to utilize the training received and to profit by the courses administered by the School. The right is reserved to reject any applicant.

All inquiries and communications regarding admission should be addressed to the Secretary, Harvard School of Public Health, 55 Shattuck Street, Boston, Mass.

DEGREES

Doctor of Public Health

The degree of Doctor of Public Health is not obtained by the mere completion of a group of courses and submission of a thesis reporting routine observations. It is granted on evidence of real scholarship in the fundamental aspects of public health and presentation of a thesis which displays independent ability and originality in a special field. Two years of work at the School are usually necessary to obtain the degree of Doctor of Public Health. In instances where previous work has been exceptionally thorough a single year may suffice, but no assurance can be given of this, since the preparation of an acceptable thesis may readily require more time than was anticipated.

Prerequisites: Candidates for this degree must present satisfactory evidence of having received the M.D. degree, or its equivalent, from an approved medical school.

Residence: At least one academic year must be spent in residence at this University.

Candidacy for the degree: To qualify as a candidate the student is required to pass with honors a comprehensive examination, which may be written or oral, in the subject matter of the courses which form the curriculum for the Master of Public Health degree. This examination may be taken without reference to the length of residence as a student.

Thesis: Upon admission to candidacy the student must present a program of independent investigation to the Administrative Board. The

results of this investigation will form the basis of the thesis which must be presented as one of the final requirements for graduation.

Two copies of the thesis must be received by the Dean's Office on or before the first day of January for degrees conferred in February, and on or before the first day of May for degrees conferred in June. Each copy must be accompanied by a summary not exceeding 1200 words in length, which shall indicate clearly the purposes, methods and results of the investigation.

Final examination: After acceptance of the thesis, the candidate will be called before the Faculty for an oral examination upon the thesis and upon those branches of science which are of especial importance for the field of the thesis.

Master of Public Health

Prerequisites: Candidates for this degree must present satisfactory evidence of having received the M.D. degree from an approved medical school. Qualified graduates from approved dental or veterinary schools may be admitted as candidates for this degree at the discretion of the Committee on Admissions.

Residence: At least one academic year must be spent in residence at this University.

Programs of study: All candidates for this degree are required to elect a sufficient number of courses to make a total of twenty credit units each semester. Due consideration will be given to the respective needs of the candidate, but the program he desires to elect must meet the approval of the Administrative Board. The courses offered and the standard credit units for each course are given below; the credit units may be altered by the Administrative Board to meet the exigencies of special situations, and other courses in the University may be substituted for special reasons.

First Semester

	Credit Units
Child Health A	4
Syphilis and Gonorrhea (Clinical lectures)	3
Public Health Administration A	2
Education of the Public in Health A	2
Vital Statistics A1	5
Bacteriology A	5
Sanitation A	4
Nutrition A	3
Bacteriology 32 (Immunity)	1
Physician and the Community	1

Second Semester

	Credit Units
Communicable Diseases A	2
Ecology A	3
Control of Syphilis and Gonorrhea	1
Industrial Hygiene A	3
Air Analysis A	2
Epidemiology A	5
Vital Statistics A2	4
Parasitology and Tropical Medicine A	3
Courses offered during the month of May	
Communicable Diseases B	1
Epidemiology B	3
Applied Immunology 33A	1
Field Training A	2
Field Training B	1
Child Health B	2
Control of Syphilis and Gonorrhea (Clinics and field training)	2
Occupational Dermatoses	2
Nutrition B	1

Final examination: This is a comprehensive examination designed to test the student's knowledge and judgment in the four basic public health subjects, — Administration, Epidemiology, Sanitation and Vital Statistics. All other subjects in the curriculum are considered specialties within these four fields.

Master or Doctor of Science in Engineering

Graduates of engineering colleges or scientific schools of recognized standing may be admitted to the Graduate School of Engineering as candidates for the Master or Doctor of Science degree conferred by the Faculty of Engineering. For such an individual the sanitary engineering or industrial hygiene aspects of public health would be the field of concentration.

For further information write The Secretary, Graduate School of Engineering, Pierce Hall, Cambridge, Mass.

Doctor of Philosophy in Hygiene

Information relative to prerequisites, courses, fees, etc., may be secured from the Secretary, Division of Medical Sciences, Harvard Medical School, 25 Shattuck Street, Boston, Mass.

CERTIFICATE IN PUBLIC HEALTH

Prerequisites: Candidates for the Certificate must be graduates in arts or in science from an approved college and present evidence of such training in the medical sciences as is ordinarily provided during the first two years of medical school curriculum. At the discretion of the Committee on Admissions, however, certain courses ordinarily required for admission may be waived, in view of special fitness or training in other fields.

Residence: At least one academic year must be spent in residence in this University.

Programs of study: The Certificate is granted upon satisfactory completion of individual courses in an approved program or for distinguished work in an approved field.

SPECIAL STUDENTS

Those who do not meet the academic requirements for admission as candidates for degrees or the certificate, may be admitted to certain courses and programs of study at the discretion of the head of each department and subject to conditions specified by him with the approval of the Dean.

Students unable to spend a full academic year at the School may come for individual courses if their preparation for the course is approved by the head of the department.

As the capacity of the School is limited, the number of special students who can be admitted is dependent on the number of applicants with a medical degree who are accepted for the regular course. Therefore, it is not possible to know how many special students can be received until late in the summer.

FEES AND EXPENSES

The fees are: For medical and infirmary fee, \$20 for each year; for instruction (including laboratory charges except breakage, damage, and loss of apparatus), \$400 for each year.

Tuition will be charged on term bills in four instalments, as follows:

One-fourth on the term bill issued at registration and payable on or before September 27th, 1939. Students who register late must pay their bills on or before the second business day following registration.

One-fourth on the term bill issued November 13th and payable November 29th.

One-fourth on the term bill issued January 12th, 1940, and payable January 30th.

One-fourth on the term bill issued April 12th and payable April 30th.

The term bills are sent to the student at his University address unless the Bursar is requested in writing to send them elsewhere.

Students desiring to take single courses may do so at the rate of \$65 for one full course, payable in advance.

The medical and infirmary fee is payable in two equal installments on the September and January term bills.

Dining hall charges for those who eat at the Medical School Dormitory will be added to the term bills.

Bills for miscellaneous charges will be rendered at the time the indebtedness is incurred.

All indebtedness to the University must be paid by candidates for degrees at least one day before Commencement.

Students who are candidates for degrees in the middle of the academic year must pay all dues to the University at least one day before the day upon which the degrees are to be voted.

A student who leaves during the year is charged to the end of the tuition period in which he leaves, provided before that time he gives the Dean notice in writing of his withdrawal; otherwise he is charged to the end of the academic year or to the end of the tuition period in which such notice is given.

When a student's connection with the University is severed, all charges against him must be paid at once.

Any student whose indebtedness to the University remains unpaid on the date fixed for payment is deprived of the privileges of the University until he is reinstated. Reinstatement is obtained only by consent of the Dean of the Department in which the student is enrolled, after payment of all indebtedness and a reinstatement fee of \$10. *Students will be held responsible for the payment of fees until they have notified the Dean, in writing, of their intentions to withdraw from the School.*

Students owning microscopes are advised to bring them with them. The School has a limited number of microscopes which may be rented upon application to the Dean's Office, but offers no guarantee that it will keep on hand a sufficient number of such instruments to furnish one for each student.

BONDS

Upon entrance to the School every student is required to file with the Bursar a bond in the sum of \$500 as security for payment of University bills. The bond must be signed by two bondsmen, both of whom must be citizens of the United States, or by a surety company duly qualified to do business in Massachusetts. No officer or student of the Uni-

versity will be accepted as a bondsman and in no case will more than one parent be accepted. In lieu of the bond a student may deposit with the Bursar five hundred dollars in United States government coupon bonds, or five hundred dollars in cash, which will bear no interest. Blank forms of bonds may be obtained at the Dean's Office or from the Bursar.

STUDENT HEALTH SERVICE

Each full-time male student will be charged annually a Medical and Infirmary fee of \$20. Because of the lack of facilities for infirmary care, women students do not pay the medical fee, but arrangements for medical service will be made individually through the Dean's Office. Part-time students working at the rate of substantially half-time or less and living at home may be exempted from this requirement upon recommendation of the Dean.

In return for payment of this fee the School provides a physician to students who will give medical advice and treatment without charge during the school year. He is available for consultation by students at his office in Building A, Harvard Medical School, from 1 to 4 o'clock daily except Saturdays and holidays. He may also be seen at other times by appointment and at any time in case of emergency. The fee also covers a total of two weeks ward care in one of the teaching hospitals of the Medical School if necessary or, in case of minor illness, to bed, board, and ordinary nursing care in the Stillman Infirmary for a period not exceeding two weeks in any one academic year. Medical attendance, private rooms, and special nursing care will be an extra charge. In addition, each student is entitled to all the medical and other services that have been organized under the Student Health Service plan of the University.

Any illness necessitating absence from work must be reported to the Dean's Office either by the attending physician or by the student if he has not consulted a physician.

Under the auspices of the Department of Medicine of the Harvard Medical School each student will be required to undergo a complete medical examination shortly after admission to the School. Evidence of having been satisfactorily vaccinated is required for entrance to Harvard University. For information regarding the Stillman Infirmary see the University Catalogue.

FELLOWSHIPS

The School offers a limited number of fellowships to students of high scholarship and exceptional ability who plan to spend not less than one academic year at the School.

Applications for fellowships should be filed with the Secretary of the School.

LIBRARIES

The joint Library of the School of Public Health and the Harvard Medical School is on the second floor of the Administration Building of the Medical School. It is open in term time from 9 A.M. until 10 P.M. on week days, from 9 A.M. until 5 P.M. on Saturdays, and from 2 P.M. until 6 P.M. on Sundays. During the summer vacation it is open week days from 9 A.M. until 10 P.M. and on Saturdays from 9 A.M. until 12 M., but is closed on Sundays throughout the day. There are at present 67,084 volumes, 188,875 pamphlets, and 550 current periodicals on file in this library.

Students also have the privilege of using the College Library in Cambridge, as well as the various departmental libraries belonging to the University, in all of which there are 3,945,318 volumes and pamphlets.

The Boston Public Library is open to students who are residents of Boston, and students not residents of Boston who have filed a bond at the Bursar's Office.

The Boston Medical Library, No. 8 The Fenway, contains about 177,783 bound volumes, 118,427 pamphlets, and 907 current periodicals on file. For those who desire to consult medical literature, this very valuable library is open on week days from 9.30 A.M. to 6 P.M., and on Mondays, Wednesdays, and Fridays until 10 P.M.

HARVARD INFANTILE PARALYSIS COMMISSION

The Commission was appointed by the Corporation September 25, 1916, and devotes itself to the treatment of those afflicted with infantile paralysis and to the study of the cause and means of prevention of the disease. The Commission also acts in an advisory capacity to the Massachusetts State Department of Health. It is supported entirely by public subscription and receives no financial support from Harvard University.

The members of the Commission are: C. SIDNEY BURWELL, *Chairman*, KENNETH D. BLACKFAN, M.D., HENRY D. CHADWICK, M.D., CECIL K. DRINKER, M.D., JOHN E. GORDON, M.D., HANS ZINSSER, M.D.

The Advisory Committee is: ROGER PIERCE, *Chairman*, RICHARD C. CURTIS, *Treasurer*, FREDERICK AYER, HERMANN F. CLARKE, JAMES J. MINOT, JR., and Miss MADELEINE HARDING, *Secretary*.

ANNOUNCEMENT OF COURSES

BACTERIOLOGY

HANS ZINSSER, A.M., M.D., S.D., *Charles Wilder Professor of Bacteriology and Immunology.*

J. HOWARD MUELLER, S.M., Ph.D., *Associate Professor of Bacteriology and Immunology.*

JOHN F. ENDERS, A.M., Ph.D., *Assistant Professor of Bacteriology and Immunology.*

LEROY D. FOTHERGILL, A.B., M.D., *Silas Arnold Houghton Assistant Professor of Bacteriology and Immunology.*

WILLIAM A. HINTON, S.B., M.D., *Instructor in Bacteriology and Immunology and Chief of Wassermann Laboratory.*

F. SARGENT CHEEVER, M.D., *Assistant in Bacteriology.*

LEAH R. SEIDMAN, A.B., Sc.D., *Assistant in Bacteriology.*

The Department of Bacteriology and Immunology of the Harvard School of Public Health, in addition to a fundamental course in bacteriology, offers a course of lectures and demonstrations in immunity and specific therapy.

Opportunity for diagnostic serological work is offered in the Department in connection with the Wassermann Laboratory of the State of Massachusetts, and provision is made for individual work upon problems of serum production, standardization, etc., under Dr. Elliott Robinson of the Massachusetts Antitoxin and Vaccine Laboratory.

Advanced work and opportunities for investigation are available, admission to this type of work depending upon the fitness of the applicant.

Bacteriology A

Lectures and laboratory work. *Mondays, Wednesdays, and Fridays, 2-5 P.M., October through January.* Dr. FOTHERGILL and associates.

Credit 5 units.

This course deals with the bacteriology of the pathogenic microorganisms in its applications to diagnosis, investigation and prevention of communicable disease. While Public Health students follow the general plan of the medical course, they are segregated under the guidance of Dr. Fothergill and are given a training more adapted to the needs of public health bacteriologists.

The bacteriology of milk, water, sewage and shell fish will be given special consideration. Throughout the course, special lectures will be given and periodic conferences will be held in order that emphasis can be given to certain phases of the subject and to allow students an opportunity for the discussion of difficulties. Clinics will be held at the Children's Hospital at which patients having infections with the organisms being studied at the moment will be demonstrated.

Bacteriology 32

Lectures. *Tuesdays, 2-3 P.M., and Thursdays, 2.30-3.30 P.M., November through January.* Dr. ZINSSER.

Credit 1 unit.

Immunity. — This course is a series of lectures on the principles and theories of immunity, together with a number of practical demonstrations. It should prepare students for their later work at the Antitoxin Laboratory under Dr. Robinson. The latter half of this course is devoted to lectures on the special immunology of specific diseases. Special emphasis is given to the specific prophylaxis and treatment of such diseases.

Applied Immunology 33a

Lectures and laboratory work. *Mondays, Wednesdays, and Fridays, 2-5 P.M., at State Antitoxin Laboratory, during May.* Dr. ROBINSON. For details see page 21.

Bacteriology 31

Arrangements as to hours will be made to suit the needs of individual students. Dr. HINTON.

Diagnostic Serum Reactions. — A short course which deals chiefly with the details of methods of serological syphilis diagnosis, but includes other phases of practical diagnostic public health laboratory work and the organization of laboratories for such purposes.

Since the above series of courses constitutes a complete unit of bacteriological public health laboratory work, it is proposed for students who take the entire group of courses to treat them as a single course in regard to examination.

This curriculum of bacteriological courses taken in conjunction with epidemiology, vital statistics, sanitation and medical zoölogy, represents a thorough training in that branch of public health which deals with the communicable diseases.

Research in Bacteriology

Special advanced courses will be offered in Immunology and the Technique of Serum Study, and will be open to a limited number of students.

Opportunity will be given for properly qualified students to pursue research work along varied lines.

APPLIED IMMUNOLOGY — SERUMS AND VACCINES

ELLIOTT S. A. ROBINSON, M.D., Ph.D., *Assistant Professor of Applied Immunology and Director of the Division of Biologic Laboratories, State Department of Public Health.*

ARTHUR P. LONG, M.D., Dr. P.H., *Instructor in Applied Immunology and Assistant Director of the Division of Biologic Laboratories, State Department of Public Health.*

PAUL V. WOOLLEY, S.M., M.D., *Instructor in Applied Immunology and Assistant Director of the Division of Biologic Laboratories, State Department of Public Health.*

ALWIN M. PAPPENHEIMER, Jr., Ph.D., *Instructor in Applied Immunology.*

LEO RANE, Ph.D., *Assistant in Applied Immunology.*

LA VERNE A. BARNES, S.M., Ph.D., *Assistant in Applied Immunology.*

Applied Immunology 33a

Lectures and laboratory work. *Mondays, Wednesdays, and Fridays, 2-5 P.M., at State Antitoxin Laboratory, during May.* Dr. ROBINSON.

Credit 1 unit.

In this course the application of immunological theory to the prevention and treatment of disease, as evidenced in the manufacture of serums, vaccines, and related products, is developed by lectures, discussions, and laboratory demonstrations. The content of the course is dependent upon the training and interests of the students.

Facilities are also offered for study of and training in the manufacture of biologic products or for original work in problems related to these processes, at times to be arranged individually.

COMPARATIVE PATHOLOGY AND TROPICAL MEDICINE

ERNEST E. TYZZER, Ph.B., A.M., M.D., S.D., *George Fabyan Professor of Comparative Pathology and Professor of Tropical Medicine.*

A. WATSON SELLARDS, A.M., M.D., *Richard Pearson Strong Associate Professor of Tropical Medicine.*

GEORGE C. SHATTUCK, M.D., A.M., *Clinical Professor of Tropical Medicine.*

JOSEPH C. BEQUAERT, Ph.D., *Assistant Professor of Comparative Pathology and Tropical Medicine.*

DONALD L. AUGUSTINE, S.D., *Assistant Professor of Comparative Pathology and Tropical Medicine.*

QUENTIN M. GEIMAN, S.M., Ph.D., *Instructor in Comparative Pathology and Tropical Medicine.*

DAVID WEINMAN, M.D., *Instructor in Comparative Pathology and Tropical Medicine.*

ALBERT A. HORNOR, A.B., M.D., *Assistant in Tropical Medicine.*

ALEXANDER H. RICE, A.M., M.D., *Lecturer on Diseases of South America.*

BYRON L. BENNETT, *Research Assistant.*

Parasitology and Tropical Medicine A

Lectures and laboratory work. *Tuesdays, 2-5 P.M., and Thursdays, 2.30-5 P.M., February and March.* Dr. TYZZER and associates.

Credit 3 units.

The course consists of lectures, laboratory exercises and demonstrations dealing with helminths, protozoa and arthropods of importance to public health, with the object of training the student in the identification of the more important parasites, and study of their life histories with reference to prevention and control. The agency of insects and other arthropods in the transmission of disease will receive special consideration.

Students with special backgrounds and interests are encouraged to undertake special or advanced work along with, or in lieu of, the regular course. Investigations of members of the Department have provided material, including cultures and other living material, in a number of fields. Among the subjects available for special work are: trichinosis, with special reference to skin and precipitin tests; hookworms; ascariasis; amebiasis, methods of diagnosis and cultivation; trypanosomiasis; leishmaniasis; rearing and dissection of various insects such as mosquitoes, bedbugs, fleas, *Phlebotomus* sandflies, et cetera; identification of *Anopheles* mosquitoes; insect rickettsiae.

Advanced Work in Medical Zoölogy and Tropical Medicine

Advanced courses and research in Protozoölogy, Helminthology, and Medical Entomology may be arranged for qualified students.

Special work on problems relating to tropical or exotic diseases may be arranged for qualified students and opportunities are at times afforded for investigators engaged on special problems to work in laboratories or hospitals situated within the tropics.

COMMUNICABLE DISEASES

CHARLES F. McKHANN, S.B., A.M., M.D., *Associate Professor of Pediatrics and Communicable Diseases.*

R. CANNON ELEY, M.D., *Associate in Pediatrics and Communicable Diseases.*

CONRAD WESSELHOEFT, M.D., *Associate in Communicable Diseases.*

EDWARD C. SMITH, A.B., M.D., *Instructor in Communicable Diseases.*

CHARLES F. WALCOTT, A.B., M.D., *Assistant in Communicable Diseases.*

Teaching in Communicable Diseases is given in the Haynes Memorial Hospital for Contagious Diseases and in the Isolation wards of the Children's Hospital.

Communicable Diseases A

Mondays, Wednesdays, and Fridays, 9-10 A.M., February and March. Fridays, 3-5 P.M., February 2, 16, March 1, 15, and Thursdays, 3-5 P.M., March 28, April 11 and 25. Dr. McKHANN and associates.

Credit 2 units.

Bacteriology A is a prerequisite for this course, which consists of lectures, demonstrations, clinics, and conferences on the care and management of patients with communicable diseases, with special consideration of problems which are solved jointly by the public health official and the practicing physician. Preventive measures for the control of communicable diseases are discussed and demonstrated.

Communicable Diseases B

Mondays, Wednesdays, and Fridays, 9-11 A.M., during May. Limited to six students. Dr. McKHANN and associates.

Credit 1 unit.

This course consists of conferences, clinics and a service as observer in

the Haynes Memorial Hospital and the Isolation Division of the Out-Patient Department and on the Isolation Wards of the Children's Hospital. It is intended to familiarize the public health student with the diagnostic and therapeutic problems encountered in the care of the individual patient and the determination of the proper and practical disposition of patients suffering from communicable diseases.

Research in Communicable Diseases

Opportunity is offered to qualified students to pursue research work in communicable disease problems in the Department of Communicable Diseases or in conjunction with the Department of Bacteriology and Immunology.

EPIDEMIOLOGY

JOHN E. GORDON, Ph.D., M.D., *Professor of Preventive Medicine and Epidemiology.*

W. LLOYD AYCOCK, M.D., *Assistant Professor of Preventive Medicine and Hygiene.*

WILLIAM McD. HAMMON, M.D., M.P.H., *Instructor in Epidemiology.*

STAFFORD M. WHEELER, M.D., *Assistant in Epidemiology.*
(Leave of absence 1939-40.)

RALPH H. HEEREN, M.S., Ph.D., M.D., *Research Fellow in Epidemiology.*

VLADO A. GETTING, M.D., *Research Fellow in Epidemiology.*

JAMES W. HAWKINS, M.S., M.D., *Charles Follen Folsom Fellow in Preventive Medicine.*

Epidemiology A

Lectures and laboratory work. *Mondays, 10.15-11.15 A.M., Tuesdays, 9-9.45 A.M., Wednesdays and Fridays, 10.15 A.M.-12.15 P.M., February and March; Tuesdays, Thursdays, and Saturdays, 9-11 A.M., and Tuesdays, 2-5 P.M., during April.* Dr. GORDON and associates.

Credit 5 units.

A laboratory, lecture and seminar course designed to give the principles, historic development and methods of epidemiology of the communicable diseases with their application to public health. The laboratory work illustrates field experience and field methods in the collection, analysis and interpretation of data on epidemic and endemic disease.

Epidemiology B

Lectures and laboratory work. *Mondays through Fridays, 9 A.M.-12 M., during May.* Dr. GORDON, Dr. AYCOCK and associates.

Credit 3 units.

Lectures present the special epidemiology of the more important groups of communicable disease and a consideration of the epidemiology of non-communicable disease. The laboratory work has to do with the investigation of epidemics and the evaluation of methods of control, using material from field studies and experimental epidemiology. This course gives emphasis to the host and environmental factors in epidemic disease.

Epidemiology C

Properly qualified workers may be assigned problems in connection with the general program of field and laboratory investigation being pursued in the department, or may be aided in the development of their own problems. Dr. GORDON and Dr. AYCOCK.

PUBLIC HEALTH ADMINISTRATION

EDWARD G. HUBER, A.B., M.D., Dr. P.H., *Assistant Professor of Public Health Administration and Assistant Dean.*

HENRY D. CHADWICK, M.D., *Lecturer on Public Health Administration and Medical Director, Middlesex County Sanatorium.*

ALTON S. POPE, A.B., M.D., Dr. P.H., *Lecturer on Public Health Administration and Deputy Commissioner, Department of Public Health of Massachusetts.*

CHARLES F. WILINSKY, M.D., *Lecturer on Public Health Administration and Deputy Commissioner in charge of Child Hygiene and Health Units, City of Boston Health Department.*

HENRY F. R. WATTS, M.D., *Lecturer on Public Health Administration and Health Commissioner, City of Boston Health Department.*

NELS A. NELSON, B.S., M.D., *Instructor in Public Health Administration and Director, Division of Genitoinfectious Diseases, Department of Public Health of Massachusetts.*

HAROLD D. CHOPE, A.B., M.D., M.P.H., *Instructor in Public Health Administration and Director of Public Health, City of Newton, Massachusetts.*

ROY F. FEEMSTER, A.B., M.D., Dr. P.H., *Lecturer on Public Health Administration and Director of the Division of Communicable Diseases, Department of Public Health of Massachusetts.*

JAMES A. TOBEY, B.S., LL.B., M.S., Dr. P.H., *Lecturer on Public Health Law.*

GEORGE KAHN, B.S., M.D., *Associate in Public Health Administration.*

Public Health Administration A

Lectures and seminars. *Mondays, Wednesdays, and Fridays, 10.15-11.15 A.M., October and November.* Dr. HUBER and associates.

Credit 2 units.

The aim of this course is to develop the principle of public administration by a study of organization, coördination and control, and of personnel management, public health law, budgeting and leadership. With the increasing complexity of government, the health commissioner devotes more and more of his time to administration in general, as distinguished from administration which is concerned chiefly with public health. The health commissioner should, therefore, understand his relationship to other departments, divisions and bureaus of federal, state and municipal governments; these subjects receive full consideration in the lectures. In order to develop the duties of the administrator of a health department along the lines of his specialized field, the administrative methods actually employed in state and municipal departments will be studied in seminars or by assigned papers.

Field Training A

Field studies, demonstrations and seminars. *Monday, Wednesday, and Friday afternoons; all day Tuesdays and Thursdays; and Saturday mornings during May.*

Credit 2 units.

These exercises are used to illustrate the practical application of the data that have been presented in the lectures on public health administration. The demonstrations are given by the Departments of Child Hygiene and Public Health Administration with the active coöperation of the Massachusetts Department of Public Health, the Health Department of the City of Newton, the City of Boston Health Department, the Connecticut Department of Health and other official and unofficial health agencies.

A wide variety of special fields in public health administration is available for observation and study by the students, including special activities in large and small city health departments, rural boards of health, departments of school medical inspection, public health nursing, communicable disease control, health units, clinics for the control of

tuberculosis and venereal disease, health examinations, contagious disease hospitals, etc.

Field Training B

Field studies, demonstrations and seminars. *Monday, Wednesday, and Friday afternoons, and Saturday mornings during May.*

Credit 1 unit.

These exercises are of the same nature as those in Field Training A, but are designed for those desiring to spend a smaller number of hours in this manner.

Research in Public Health Administration

Advanced students are offered the opportunity to undertake special studies in Public Health Administration. The student must have completed Public Health Administration A, Epidemiology A, and Vital Statistics A before registering for this work.

Education of the Public in Health A

For students in the School of Public Health who are working for degrees or certificates. Lectures and seminars. *Mondays, Wednesdays, and Fridays, 10.15-11.15 A.M., December and January.* Dr. HUBER and associates.

Credit 2 units.

There is a growing realization that adults in the general population must be educated not only in individual health measures, but in the organization and functions of health departments. This is the concern of the health officer and of the members of his staff. For the graduate in medicine who is preparing to enter a health department, or who is already a member of a health department, and who wishes, if not to specialize in this field, at least to be better prepared, the School offers a course in public health education. The aim of this course is to teach the student the technique of writing newspaper articles, of using the radio, of medical writing, of the preparation of reports, of addressing lay audiences on public health subjects, etc. Certain elective work in the Graduate School of Education and in Massachusetts Institute of Technology is also open to students interested in this field.

Education of the Public in Health B

For public health workers, such as nurses and others interested in the field of health education, courses will be arranged after personal conference. Such candidates must be college graduates. For them, one or

two years of special work will be arranged, on the satisfactory completion of which a Certificate in Public Health Education will be awarded.

It is essential for the person going into the field of health education first to have a basic knowledge of anatomy, physiology, and the fundamental medical sciences. He must also know what public health is, what its aims are and what administrative measures are used. Equally essential is a knowledge of educational technique. To give the prospective health educator training in these subjects the Harvard School of Public Health and the Graduate School of Education offer a combined one- or two-year course to college graduates, each student to be assigned to work after an individual conference to determine his particular needs and taking into consideration his training and experience. Credit for previous training in public health and educational methods, or for experience therein, may be granted.

Such a student, after a conference to determine his individual requirements, would elect subjects from the following group.

Harvard School of Public Health

Public Health Administration A
 Education of the Public in Health A
 Bacteriology A
 Sanitation A
 Nutrition A
 Epidemiology A
 Parasitology and Tropical Medicine A
 Communicable Diseases A

Harvard Medical School

Anatomy
 Physiology

Graduate School of Education

Educational Psychology 1 or 1r
 Educational Measurement 1 or 1r
 Principles of Teaching 5 or 5r
 Philosophy of Education 1 or 1r
 Elementary Education 1
 Secondary Education 1 or 1r
 Educational Administration 1 and/or 2

Faculty of Arts and Sciences and Radcliffe College

Comparative Anatomy and Evolution of Vertebrates
 Principles of Physiology

Control of Syphilis and Gonorrhea

Clinical lectures. *Mondays, Wednesdays, and Fridays, 9-10 A.M., October through January.*

Credit 3 units.

Lectures on Administrative Control. *Mondays, 11.30 A.M.-12.30 P.M., February and March; Mondays, Wednesdays, and Fridays, 9-10 A.M., during April.*

Credit 1 unit.

Clinics. *Mornings during May at the Massachusetts General Hospital and the Boston Dispensary.*

Field training. *Afternoons during May.*

Credit for clinics and field work 2 units.

Students desiring to specialize in syphilis and gonorrhea may elect part or all of the work offered in this field. The clinical lectures during the first semester are given by specialists in their respective fields. The lectures during the second semester are given by Dr. Nelson and cover the administrative aspects of the control of this group of diseases.

During May the facilities of the clinics at the Massachusetts General Hospital and the Boston Dispensary are available during the mornings.

During the afternoons of May students may elect field training in the control of syphilis and gonorrhea which includes special work in the Massachusetts Department of Public Health Diagnostic Laboratory, the City of Boston Health Department Bacteriologic Laboratory and the Massachusetts Department of Public Health Wasserman Laboratory.

During the year 1938-39 the clinical lectures in this course were given by the following:

Dr. C. Guy Lane

Dr. Francis M. Thurmon

Dr. Austin W. Cheever

Dr. William P. Boardman

Dr. Oscar F. Cox

Dr. Augustus Riley

Dr. A. K. Paine

Dr. J. Dellinger Barney

CHILD HYGIENE

KENNETH D. BLACKFAN, M.D., *Thomas Morgan Rotch Professor of Pediatrics.*

RICHARD M. SMITH, A.B., M.D., S.D., *Assistant Professor of Pediatrics and Child Hygiene.*

HAROLD C. STUART, LITT.B., M.D., *Assistant Professor of Pediatrics and Child Hygiene.*

LOUIS K. DIAMOND, M.D., *Associate in Pediatrics.*

M. LUISE DIEZ, M.D., *Instructor in Child Hygiene.*

STEWART H. CLIFFORD, M.D., *Instructor in Pediatrics and Child Hygiene.*

WILLIAM T. GREEN, M.D., *Instructor in Orthopaedic Surgery.*

HAROLD M. TEEL, M.D., *Instructor in Obstetrics and Maternal Health.*

ABRAHAM S. SMALL, M.D., *Instructor in Pediatrics and Child Hygiene.*

EDWARD L. TUOHY, M.D., *Instructor in Pediatrics and Child Hygiene.*

BERTHA S. BURKE, M.A., *Instructor in Nutrition.*

ARTHUR B. LYON, M.D., *Instructor in Pediatrics.*

RALPH B. MILLER, A.B., M.D., *Assistant in School Hygiene.*

NATHAN GORIN, M.B., M.D., *Assistant in Child Hygiene.*

JOSEPHINE G. O'BRIEN, R.N.

Child Health A

Lectures. *Mondays, Wednesdays, and Fridays, 9-10 A.M., October through January.* Dr. SMITH, Dr. STUART and associates.

Field work: *During May, in conjunction with Field Training A and B, in the Department of Public Health Administration.* (See pages 26 and 27.)

Credit 4 units.

This course presents in broad outline various subjects which have an important relation to child health. They are grouped under the following general divisions.

1. — Maternal Hygiene and Obstetrical Care

Lectures dealing with those aspects of maternal care which are of concern to the health officer and which require attention for the protection of the fetus as well as the mother.

2. — Growth and Development

The lectures on Growth and Development consider not only normal occurrences, but the requirements for satisfactory progress, and the problems of health appraisal in childhood. An attempt is made in this division to cover the scientific foundations upon which activities in the field of child health should be constructed.

3. — Morbidity and Mortality

Lectures on Morbidity and Mortality focus attention upon the chief conditions requiring preventive effort and the prevalence of various risks and handicaps.

4. — Child Hygiene

These lectures deal with the methods and channels of applied child health activities, both public and private. The care and protection of the neonate, the infant, the pre-school child and the school child are taken up successively in lectures and discussion periods.

During the year 1938-39 special lectures and instructions were given by the following:

Florence Hopkins, D.M.D., M.D.	John Kuhns, M.D.
Foster S. Kellogg, M.D.	Paul A. Chandler, M.D.
C. Stanley Raymond, M.D.	Douglas A. Thom, M.D.
James W. Sever, M.D.	Mr. Cheney Jones
T. Duckett Jones, M.D.	Miss Helen R. Fowler, R.N.
Miss Abigail Eliot	

Child Health B

Clinical and field work. *Month of May, limited to four students.*

Credit 2 units.

The aim of this course is to give practical instruction in the conduct of various health activities. The schedule of activities will be arranged as far as possible to meet the particular needs of each student.

Through field exercises an additional opportunity is offered to study at first hand the work of the Division of Child Hygiene of the State Department of Public Health, the Infant and Pre-School Child Welfare Conferences of the Boston City Health Department, and the health program in the schools of the City of Newton. The care and protection of handicapped children is also demonstrated on visits to such institutions as the Florence Crittenton Home, the New England Home for Little Wanderers, and the Wrentham State School.

PHYSIOLOGY

CECIL K. DRINKER, S.B., M.D., S.D., *Dean and Professor of Physiology.*

LOUIS A. SHAW, A.B., *Assistant Professor of Physiology.*

GEORGE H. HITCHINGS, S.M., Ph.D., *Associate in Physiology.*

MADELEINE F. WARREN, A.M., Ph.D., *Associate in Physiology.*

GEORGE SASLOW, S.M., Ph.D., *Instructor in Physiology.*

FRANK W. MAURER, Ph.D., *Instructor in Physiology.*

J. WILLIAM HEIM, Ph.D., *Lecturer on Physiology.*

HENRY WARREN, *Assistant in Physiology.*

Ecology A

Lectures. *Tuesdays, Thursdays, and Saturdays, 10-11 A.M., February and March; Mondays, Wednesdays, and Fridays, 10.15-11.15 A.M., during April.* Dr. DRINKER and associates.

Credit 3 units.

Ecology is that branch of biological science which deals with the relations of living organisms to their surroundings.

It is the effort of sanitary engineering to provide living and working conditions safe and tolerable for man all over the world and under many different circumstances. The human organism reacts characteristically to many changes in physical environment, to chemical changes in the atmosphere, and to alterations in food supply. In every instance large groups of people are involved and a reasonable knowledge of the principles of public health thus requires realization of the effects of the commoner environmental conditions met by man. These are heat, cold, humidity, dryness, alterations in barometric pressure, light, contamination of the atmosphere by smoke, dusts and chemicals, and changes in diet.

The course will consist of lectures, conferences and demonstrations covering the reaction caused by the varieties of human experience.

Research in Physiology

Properly qualified students will be given opportunities to work in the laboratory provided they can spend at least six months of undivided time.

Nutrition A

Lectures. *Mondays and Wednesdays, 11.30 A.M.-12.30 P.M., October through January.* Dr. HITCHINGS and assistants.

Credit 3 units.

In addition to the lectures this course consists of conferences and assigned reading upon the fundamental chemistry and physiology of nutrition. It will include a discussion of food production and distribution and of the problems arising in the feeding of large groups of people. Especial attention will be directed to the relationship between nutrition and national economy.

Nutrition B

Laboratory work. *May.* Dr. HITCHINGS.

Credit 1 unit.

This course affords an opportunity for laboratory work to properly

qualified students. It consists of practical work with the analytical methods used for the detection and determination of food constituents and for metabolic studies. To a considerable extent the choice of methods studied can be arranged to suit individual requirements.

Toxicological Analysis

Conferences and laboratory work, *to be arranged according to individual needs.* Dr. HITCHINGS.

An elective course, offered only to students properly qualified in chemistry, in micro methods of analysis of arsenic, mercury, lead and other poisonous metals, dusts, fumes and gases of importance in industrial hygiene, or in the micro-analytical rating of foods with respect to spoilage, contamination and adulteration.

PUBLIC HEALTH ENGINEERING

Industrial Hygiene and Sanitary Engineering

PHILIP DRINKER, S.B., Ch.E., *Professor of Industrial Hygiene.*

GORDON M. FAIR, S.M., *Abbot and James Lawrence Professor of Engineering and Gordon McKay Professor of Sanitary Engineering.*

CONSTANTIN P. YAGLOU, A.B., S.B., M.M.E., *Associate Professor of Industrial Hygiene.*

W. IRVING CLARK, A.B., M.D., F.A.C.S., *Assistant Professor of the Practice of Industrial Medicine.*

MELVILLE C. WHIPPLE, *Assistant Professor of Sanitary Chemistry.*

EDWARD W. MOORE, A.B., A.M., *Assistant Professor of Sanitary Chemistry.*

CHARLES E. RENN, S.B., A.M., Ph.D., *Instructor in Sanitary Biology.*

REUBEN Z. SCHULZ, A.M., M.D., *Instructor in Pathology.*

CHARLES R. WILLIAMS, Ph.D., *Instructor in Industrial Hygiene.*

KINGSLEY K. KAY, A.B., A.M., Ph.D., *Instructor in Industrial Hygiene.*

HERVEY B. ELKINS, A.B., A.M., Ph.D., *Instructor in Industrial Hygiene.*

HAROLD A. THOMAS, JR., S.B., S.M., *Instructor in Sanitary Engineering.*

THOMAS L. SHIPMAN, Ph.B., M.D., *Lecturer on Industrial Hygiene.*

MANFRED BOWDITCH, A.B., *Lecturer on Industrial Hygiene.*

C. GUY LANE, A.B., M.D., *Lecturer on Industrial Hygiene.*

ROBERT M. THOMSON, *Assistant in Industrial Hygiene.*

GEORGE W. MORSE, A.B., M.D., *Assistant in Industrial Hygiene.*

WILLIAM F. DOLAN, A.B., M.D., *Assistant in Industrial Hygiene.*

HENRY C. MARBLE, A.B., M.D., *Assistant in Industrial Hygiene.*

JOSEPH GOODMAN, S.B., M.D., *Assistant in Industrial Hygiene.*

JACK E. MCKEE, S.B., *Assistant in Sanitary Engineering.*

DAVID B. SMITH, S.B., *Assistant in Sanitary Engineering.*

Industrial Hygiene A

Lectures and demonstrations. *Mondays, Wednesdays, and Fridays, 2-4 P.M., February through April.* Field trips, *2-5 P.M., on February 2, 5, 26, March 6, 29, and April 15, 17, 24.* Professor DRINKER and associates.

Credit 3 units.

A course of lectures, demonstrations, clinics, and inspections showing the relation of working conditions to health, with special reference to the cause, prevention and treatment of industrial disabilities.

Air Analysis A

Laboratory work. *Time to be arranged, February through April.* Professor DRINKER and associates.

Credit 2 units.

This is a laboratory course given in conjunction with Industrial Hygiene A and demonstrating methods employed in studying (a) physical properties of the air; (b) atmospheric impurities; (c) protective devices; (d) air-conditioning equipment.

Heating and Ventilating (Engineering 140a)

Lectures. *Monday, Wednesday, and Friday, 9-10 A.M., first half-year, at Pierce Hall, Cambridge.* Professor C. H. BERRY and Mr. F. R. ELLIS.

The theory and practice of heating and ventilating. For engineers.

Air Conditioning (Engineering 140b)

Lectures. *Monday, Wednesday, and Friday, 9-10 A.M., second half-year, at Pierce Hall, Cambridge.* Assoc. Professor YAGLOU and associates.

The theory and practice of air conditioning. For engineers.

Research in Industrial Hygiene, Heating and Ventilating, and Air Conditioning

A limited number of qualified students will be given an opportunity to do research work in these general fields.

Occupational Dermatoses

Lectures, clinics and field trips. *All day during May. Limited to ten and will not be given unless five students are registered.* Dr. LANE and associates.

Credit 2 units.

A special course consisting of lectures on the clinical manifestations, etiological factors, diagnosis, treatment, insurance and legal aspects, etc., clinics at the Massachusetts General Hospital and at the various insurance companies, and visits to some of the more important factories to study industrial processes and preventive measures.

This course is open to regular students and also to properly qualified persons who wish to register as special students for this one course.

The Principles of Sanitation A

Lectures and demonstrations. *Tuesdays, 10.15 A.M.-12.15 P.M., October through January; Thursdays, 9 A.M.-12 M., October and November, 10.15 A.M.-12.15 P.M., December and January.* Professor FAIR and associates.

Credit 4 units.

A course of lectures, demonstrations and inspections arranged especially for students in the School of Public Health. The following topics will be studied: (a) Water Supply — collection, purification and distribution; (b) Sewerage — collection, treatment and disposal; (c) Analysis of Water and Sewage — physical, chemical and biological; (d) Housing, City Planning and Zoning; (e) Rural Sanitation; (f) Biological Control — insects and rodents; (g) Food Sanitation — production, preservation, distribution and preparation; (h) Milk Sanitation; (i) Shellfish Sanitation; (j) Garbage and Refuse — collection and disposal; (k) Sanitation of Schools, Camps and Bathing Places.

The following courses of instruction offered in the Graduate School of Engineering are open to properly qualified students:

Engineering 400a. Water Supply and Sewerage. Professor FAIR.

Engineering 400b. Water Purification and Sewage Treatment Works. Professor FAIR.

Engineering 410a and 410b. Sanitary Analysis of Water and Sewage.
Asst. Professor WHIPPLE.

Engineering 411a. Sanitary Bacteriology. Asst. Professor WHIPPLE.

Engineering 411b. Sanitary Bacteriology. Dr. RENN.

Engineering 412a and 412b. Theoretical Principles of Sanitary Chemistry. Asst. Professor MOORE.

Engineering 413a and 413b. Sanitary Biology. Dr. RENN.

Engineering 430b. Theory of Water Purification and Sewage Treatment.
Asst. Professor MOORE.

Engineering 431b. Field and Laboratory Work in Water Purification
and Sewage Treatment. Asst. Professor WHIPPLE.

Engineering 432a. Industrial Wastes and Municipal Refuse. Asst.
Professor MOORE.

VITAL STATISTICS

EDWIN B. WILSON, Ph.D., *Professor of Vital Statistics.*

CARL R. DOERING, A.B., M.D., S.D., *Assistant Professor of Vital
Statistics.*

JANE WORCESTER, A.B., *Instructor in Vital Statistics.*

Vital Statistics A1

Lectures and laboratory work. *Tuesdays and Thursdays, 2-3.30 P.M.,
and Saturdays, 9-11.15 A.M., during October; Tuesdays, 3.15-4.45 P.M.,
Thursdays, 3.45-4.45 P.M., and Saturdays, 9-11.15 A.M., November
through January.* Dr. DOERING.

Credit 5 units.

This introduction to Vital Statistics will consist of lectures, recitations,
and written work designed to familiarize the student with (1) the general
facts already well established in demography, (2) the methods of graphical
representation, (3) the calculation and use of averages and of measures
of variation, and (4) the common types of rates, their adjustment and
comparison.

References: M. J. ROSENAU, *Preventive Medicine*, Chap. XXX, by C.
R. DOERING.

A. BRADFORD HILL, *Principles of Medical Statistics.*

Vital Statistics A2

Lectures. *Tuesdays, Thursdays, and Saturdays, 11.15 A.M.-12.45
P.M., February through April.* Professor WILSON.

Credit 4 units.

This course deals with the elements of the theory of statistical method with especial emphasis on those types of reasoning which are important for the proper planning and execution of field or laboratory investigations. It includes (1) the basic theory of probability, including errors of sampling, (2) association (Yule) and correlation, (3) arithmetic and geometric trends and, as time permits, various other topics such as life tables, rise and fall of epidemics, and the analysis of variation into component parts.

Reference: G. U. YULE, *Introduction to the Theory of Statistics*.

Vital Statistics B

Professor WILSON or Dr. DOERING

A reading course, in either or both half-years, without specific assignment of hours, for students who have a satisfactory knowledge of elementary statistics and wish individual supervision in their study of more advanced parts of the subject.

Vital Statistics C

Professor WILSON or Dr. DOERING

A research course, in either or both half-years, for students, whether specializing in Vital Statistics or in any other field of public health or the social disciplines, who desire to make statistical investigations of their own or to coöperate in the general statistical research of the Department.

The Physician and the Community

Lectures and discussions. *Tuesdays, 9-10 A.M., October through January.* Dr. DOERING and others to be announced.

Credit 1 unit.

After a few introductory lectures the course will consist of discussions of situations and conditions arising as a result of the social organization of the community. The health officer with a few years' experience has encountered problems based on the organization with which he is familiar. These problems are closely related to the health of the community and to the administration of a health program. In past years, students have requested discussions of social factors relating to the public health and this course is offered tentatively.

The discussion group will be limited to those who have had some experience in the public health field. Those who have not had such experience may attend the discussions as auditors. The selection of members of the class will be made by the Instructor after consultation with candidates.

STUDENTS 1938-39

Antell, Michael, M.D.	Maspeth, N. Y.
Atwood, Catharine, A.B.	Chelmsford, Mass.
Bailey, Frederick J., M.D.	Dorchester, Mass.
Bailey, Karl R., M.D.	Chestnut Hill, Mass.
Berg, Lawrence, M.D.	Okemos, Mich.
Bernstein, Leo, M.D.	Quincy, Mass.
Bica, Alfredo N., M.D.	Rio de Janeiro, Brazil
Butler, Alice E., M.D.	Wellesley, Mass.
Byrne, Mary R., M.ED.	Dorchester, Mass.
Carroll, William D., B.B.A.	Austin, Texas
Castro, Juan D., M.D.	Havana, Cuba
Cauley, John H., M.D.	Dorchester, Mass.
Chang, Shih Lu, M.D.	Changsha, China
Chope, Harold D., M.D.	Newtonville, Mass.
Coleman, James M., M.D.	Austin, Texas
Collins, Aubrey J., M.D.	Boston, Mass.
Cornell, Virgil H., M.D.	New York, N. Y.
Coshak, Morris, M.D.	Roxbury, Mass.
Crum, Mary J., A.B.	Duluth, Minn.
Davidow, Morris N., M.D.	Roxbury, Mass.
Davidson, James E., B.S.	Boston, Mass.
Dietz, Ernest F., A.B.	Newton Centre, Mass.
Donovan, Mary R.	Brighton, Mass.
Fargher, Cecil R., M.D.	Wenatchee, Wash.
Fatheree, Leroy L., M.D.	Jonesboro, Ark.
Foley, James V., M.D.	Coeur d'Alene, Idaho
Frechette, Alfred, M.D.	Burlington, Vt.
Gan, Tomas M., M.D.	Manila, P. I.
Getting, Vlado A., M.D.	Jamaica Plain, Mass.
Goldman, Harry, M.D.	Boston, Mass.
Goldsberry, John J., M.D.	Worcester, Mass.
Griffin, William H., D.M.D.	Dorchester, Mass.
Hackney, James F., M.D.	Atlanta, Ga.
Hammon, William M., M.D.	Brookline, Mass.
Hawkins, James W., M.D.	Coeur d'Alene, Idaho
Heiner, Robert G., M.D.	Boston, Mass.
Hopkins, Florence B., M.D.	Cohasset, Mass.
Hume, Robert C., M.D.	Olean, N. Y.
Hunt, Wallace D., M.D.	Seattle, Wash.
Ide, G. Shirley, A.B.	West Roxbury, Mass.
Johnson, Orlen J., M.D.	Reed City, Mich.

Keene, Jesse A., M.D.
 Kingston, James R., M.D.
 Koch, Richard A., M.D.
 Lamoureux, Eugene E., M.D.
 Lien, Arthur E., M.D.
 McDonnell, Irene B., A.B.
 McGarry, Augustine W., M.D.
 Mark, Hilbert, M.D.
 Masten, Alfred R., M.D.
 Menon, Makoth K. K., M.B.
 Morse, Fred W., Jr., M.D.
 Mosher, William E., Jr., M.D.
 Mullowney, Patrick H., M.D.V.
 Nelson, Nels A., M.D.
 O'Donnell, George T., M.D.
 Perley, Abraham I., M.D.
 Peterson, Jerome S., M.D.
 Pinto, Necker, M.D.
 Piszczek, Edward A., M.D.
 Plunkett, Richard J., M.D.
 Poutas, John J., M.D.
 Riedel, Robert H., M.D.
 Ripka, Emily L., M.D.
 Rothert, Frances C., M.D.
 Siragusa, James J., M.D.
 Snegireff, Leonid S., M.D.
 Steinberg, Harold, M.D.
 Thigpen, Minnie P., B.S.
 Thomas, Anna R.
 Thomas, Ruth A., B.S.
 Troutman, Clair E., M.D.
 Tully, Susan M., A.B.
 Turner, Vernon A., M.D.
 Twinam, Claire W., M.D.
 Verde, Luigi P., M.D.
 Vest, Maurice D., M.D.
 Wedgwood, Hazel
 Weissman, Israel O., M.D.
 Whitehead, John W., Jr., D.D.S.
 Williams, Harry M., M.D.
 Wood, William B., M.D.

Washington, D. C.
 Bemidji, Minn.
 Colfax, Wash.
 Windsor, Conn.
 Spokane, Wash.
 Boston, Mass.
 Boston, Mass.
 Minneapolis, Minn.
 Denver, Colo.
 Madras, India
 Wellesley, Mass.
 Syracuse, N. Y.
 Roslindale, Mass.
 Winthrop, Mass.
 Newton, Mass.
 La Fayette, Ala.
 New York, N. Y.
 Rio de Janeiro, Brazil
 Chicago, Ill.
 Watertown, Mass.
 West Newton, Mass.
 Topeka, Kans.
 Owatonna, Minn.
 New Orleans, La.
 East Boston, Mass.
 Trenton, N. J.
 Chicago, Ill.
 Minneapolis, Minn.
 Richmond, Va.
 Braintree, Mass.
 Marion, N. Y.
 Boston, Mass.
 Bristol, Va.
 Pittsfield, Mass.
 Dorchester, Mass.
 Omaha, Neb.
 Boston, Mass.
 New York, N. Y.
 West Stockbridge, Mass.
 Baltimore, Md.
 Roslindale, Mass.

DEGREES

On June 23, 1938, Degrees and Certificates were conferred as follows:

DOCTOR OF PUBLIC HEALTH, *cum Laude*

Arthur Paige Long, S.B. (*Univ. of Iowa*) 1932, M.D. (*ibid.*) 1934, M.P.H. (*Harvard Univ.*) 1937.

Thesis: A Study of Nosocomial Infections in an Infants Hospital.

Special Field: Communicable Diseases.

DOCTOR OF PUBLIC HEALTH

Roy Milne Seideman, M.D. (*Long Island Coll. of Medicine*) 1936.

Thesis: A Comparative Study of Old Tuberculin and Purified Protein Derivative and a Practical Method for the Determination of an Optimal First-Strength Dose.

Special Field: Epidemiology.

MASTER OF PUBLIC HEALTH, *Magna cum Laude*

B. Barrett Gilman, S.B. (*Harvard Univ.*) 1925, M.D. (*ibid.*) 1929.

MASTER OF PUBLIC HEALTH, *cum Laude*

Osmond Edwin R. Abhayaratne, L.M. and S. (*Ceylon Medical Coll.*) 1929, L.R.C.P. and S. and L.R.F.P. and S. (*Royal Coll. of Physicians and Surgeons*) 1931, D.P.H. (*Univ. of Edinburgh*) 1932.

Kalpathi S. Viswanathan, A.B. (*Madras Univ.*) 1919, M.B., B.S. (*ibid.*) 1924, B.S.SC. (*ibid.*) 1925.

MASTER OF PUBLIC HEALTH

Mary Molitor Atchison, A.B. (*Univ. of Dubuque*) 1928, M.D. (*Univ. of Iowa*) 1931.

James Charles Boland, M.D. (*Albany Med. Coll.*) 1932.

May Annette Borquist, A.B. (*Reed Coll.*) 1923, M.D. (*Cornell Univ.*) 1932.

Richard Fay Boyd, A.B. (*Univ. of Illinois*) 1928, M.D. (*Univ. of Chicago*) 1935.

Frank Ellsworth Butters, S.B. (*Allegheny Coll.*) 1932, M.D. (*Univ. of Pittsburgh*) 1936.

Percy Field Guy, M.D. (*Univ. of Michigan*) 1922.

Clifton F. Hall, M.D. (*Univ. of Louisville*) 1930.

William McDowell Hammon, A.B. (*Allegheny Coll.*) 1932, M.D. (*Harvard Univ.*) 1936.

Athanasios George Mandekos, M.D. (*Athens Univ.*) 1926.

Ernest Mariett Morris, A.B. (*Brown Univ.*) 1910, M.D., C.M. (*McGill Univ.*) 1914.

Herbert L. Newcombe, A.B. (*Univ. of Alberta*) 1928, M.D. (*ibid.*) 1932.

Philip Earl Sartwell, M.D. (*Boston Univ.*) 1932.

Marion Lucile Slemons, A.B. (*Mt. Holyoke Coll.*) 1929, M.D. (*Univ. of Mich.*) 1936.

Tien You Tai, M.D. (*National Medical Coll. of Shanghai*) 1936.

Ralph Marean Vincent, S.B. (*Univ. of Michigan*) 1915, M.D. (*ibid.*) 1917.

Virginia Eugenia Webb, S.B. (*Birmingham Southern Coll.*) 1929, M.B. (*Louisiana State Univ.*) 1933, M.D. (*ibid.*) 1934.

Philip Whitney Woods, A.B. (*Bowdoin Coll.*) 1930, D.D.S. (*Univ. of Michigan*) 1933, M.S.D. (*Northwestern Univ.*) 1936.

CERTIFICATE OF PUBLIC HEALTH

Charles Burnett Billington, M.D. (*Univ. of Tennessee*) 1934.

Silvestre Lopez Portillo, M.D. (*Medical Univ. of Mexico*) 1929.

CERTIFICATE OF PUBLIC HEALTH IN BACTERIOLOGY

Lucile Laughlin Cheney, A.B. (*Wellesley Coll.*) 1925.

Dean Henry Fisher, A.B. (*Univ. of Maine*) 1931.

CERTIFICATE OF PUBLIC HEALTH IN INDUSTRIAL HYGIENE

A. Nand, M.B., B.S. (*King George's Medical Coll.*) 1927, D.P.H. (*Provincial Hygiene Institute*) 1930.

Emil Paluch, M.D. (*Univ. in Warsaw*) 1930.

CERTIFICATE OF PUBLIC HEALTH IN THE CONTROL OF SYPHILIS AND GONORRHEA

Ernest Bertram Howard, A.B. (*Harvard Univ.*) 1931, M.D. (*Boston Univ.*) 1936.

On February 27, 1939, the following degree was conferred:

MASTER OF PUBLIC HEALTH, *Magna cum Laude* (as of the year 1938)

Bernard Michael Blum, A.B. (*Columbia Univ.*) 1929, M.D. (*Rush Med. Coll.*) 1934.

TABULAR VIEW

OCTOBER (September 25–October 21)		NOVEMBER (October 23–November 18)	
Monday	Child Health A 9–10 A.M. Syphilis and Gonorrhea 9–10 A.M. Public Health Administration A 10.15–11.15 A.M. Nutrition A 11.30 A.M.–12.30 P.M. Bacteriology A 2–5 P.M.	Child Health A 9–10 A.M. Syphilis and Gonorrhea 9–10 A.M. Public Health Administration A 10.15–11.15 A.M. Nutrition A 11.30 A.M.–12.30 P.M. Bacteriology A 2–5 P.M.	
Tuesday	Physician and the Community 9–10 A.M. Sanitation A 10.15 A.M.–12.15 P.M. Vital Statistics A1 2–3.30 P.M.	Physician and the Community 9–10 A.M. Sanitation A 10.15 A.M.–12.15 P.M. Bacteriology 32 (Immunity) 2–3 P.M. Vital Statistics A1 3.15–4.45 P.M.	
Wednesday	Child Health A 9–10 A.M. Syphilis and Gonorrhea 9–10 A.M. Public Health Administration A 10.15–11.15 A.M. Nutrition A 11.30 A.M.–12.30 P.M. Bacteriology A 2–5 P.M.	Child Health A 9–10 A.M. Syphilis and Gonorrhea 9–10 A.M. Public Health Administration A 10.15–11.15 A.M. Nutrition A 11.30 A.M.–12.30 P.M. Bacteriology A 2–5 P.M.	
Thursday	Sanitation A 9 A.M.–12 M. Vital Statistics A1 2–3.30 P.M.	Sanitation A 9 A.M.–12 M. Bacteriology 32 (Immunity) 2.30–3.30 P.M. Vital Statistics A1 3.45–4.45 P.M.	
Friday	Child Health A 9–10 A.M. Syphilis and Gonorrhea 9–10 A.M. Public Health Administration A 10.15–11.15 A.M. Bacteriology A 2–5 P.M.	Child Health A 9–10 A.M. Syphilis and Gonorrhea 9–10 A.M. Public Health Administration A 10.15–11.15 A.M. Bacteriology A 2–5 P.M.	
Saturday	Vital Statistics A1 9–11.15 A.M.	Vital Statistics A1 9–11.15 A.M.	

TABULAR VIEW

DECEMBER (November 20–December 22)		JANUARY (January 3–January 27)	
Monday	Child Health A 9–10 A.M. Syphilis and Gonorrhea 9–10 A.M. Education of the Public in Health A 10.15–11.15 A.M. Nutrition A 11.30 A.M.–12.30 P.M. Bacteriology A 2–5 P.M.	Child Health A 9–10 A.M. Syphilis and Gonorrhea 9–10 A.M. Education of the Public in Health A 10.15–11.15 A.M. Nutrition A 11.30 A.M.–12.30 P.M. Bacteriology A 2–5 P.M.	
Tuesday	Physician and the Community 9–10 A.M. Sanitation A 10.15 A.M.–12.15 P.M. Bacteriology 32 (Immunity) 2–3 P.M. Vital Statistics A1 3.15–4.45 P.M.	Physician and the Community 9–10 A.M. Sanitation A 10.15 A.M.–12.15 P.M. Bacteriology 32 (Immunity) 2–3 P.M. Vital Statistics A1 3.15–4.45 P.M.	
Wednesday	Child Health A 9–10 A.M. Syphilis and Gonorrhea 9–10 A.M. Education of the Public in Health A 10.15–11.15 A.M. Nutrition A 11.30 A.M.–12.30 P.M. Bacteriology A 2–5 P.M.	Child Health A 9–10 A.M. Syphilis and Gonorrhea 9–10 A.M. Education of the Public in Health A 10.15–11.15 A.M. Nutrition A 11.30 A.M.–12.30 P.M. Bacteriology A 2–5 P.M.	
Thursday	Sanitation A 10.15 A.M.–12.15 P.M. Bacteriology 32 (Immunity) 2.30–3.30 P.M. Vital Statistics A1 3.45–4.45 P.M.	Sanitation A 10.15 A.M.–12.15 P.M. Bacteriology 32 (Immunity) 2.30–3.30 P.M. Vital Statistics A1 3.45–4.45 P.M.	
Friday	Child Health A 9–10 A.M. Syphilis and Gonorrhea 9–10 A.M. Education of the Public in Health A 10.15–11.15 A.M. Bacteriology A 2–5 P.M.	Child Health A 9–10 A.M. Syphilis and Gonorrhea 9–10 A.M. Education of the Public in Health A 10.15–11.15 A.M. Bacteriology A 2–5 P.M.	
Saturday	Vital Statistics A1 9–11.15 A.M.	Vital Statistics A1 9–11.15 A.M.	

TABULAR VIEW

FEBRUARY (January 29–February 24)		MARCH (February 26–March 23)	
Monday	Communicable Diseases A 9–10 A.M. Epidemiology A 10.15–11.15 A.M. Control of Syphilis and Gonorrhea 11.30 A.M.–12.30 P.M. Industrial Hygiene A 2–4 P.M. (2–5 P.M. Feb. 5)	Communicable Diseases A 9–10 A.M. Epidemiology A 10.15–11.15 A.M. Control of Syphilis and Gonorrhea 11.30 A.M.–12.30 P.M. Industrial Hygiene A 2–4 P.M. (2–5 P.M. Feb. 26)	
Tuesday	Epidemiology A 9–9.45 A.M. Ecology A 10–11 A.M. Vital Statistics A2 11.15 A.M.– 12.45 P.M. Parasitology and Tropical Medicine A 2–5 P.M.	Epidemiology A 9–9.45 A.M. Ecology A 10–11 A.M. Vital Statistics A2 11.15 A.M.– 12.45 P.M. Parasitology and Tropical Medicine A 2–5 P.M.	
Wednesday	Communicable Diseases A 9–10 A.M. Epidemiology A 10.15 A.M.– 12.15 P.M. Industrial Hygiene A 2–4 P.M.	Communicable Diseases A 9–10 A.M. Epidemiology A 10.15 A.M.– 12.15 P.M. Industrial Hygiene A 2–4 P.M. (2–5 P.M. Mar. 6)	
Thursday	Ecology A 10–11 A.M. Vital Statistics A2 11.15 A.M.– 12.45 P.M. Parasitology and Tropical Medicine A 2.30–5 P.M.	Ecology A 10–11 A.M. Vital Statistics A2 11.15 A.M.– 12.45 P.M. Parasitology and Tropical Medicine A 2.30–5 P.M.	
Friday	Communicable Diseases A 9–10 A.M. Epidemiology A 10.15 A.M.– 12.15 P.M. Industrial Hygiene A 2–4 P.M. (2–5 P.M. Feb. 2) Communicable Diseases A 3–5 P.M. (Feb. 2, 16)	Communicable Diseases A 9–10 A.M. Epidemiology A 10.15 A.M.– 12.15 P.M. Industrial Hygiene A 2–4 P.M. Communicable Diseases A 3–5 P.M. (March 1, 15)	
Saturday	Ecology A 10–11 A.M. Vital Statistics A2 11.15 A.M.– 12.45 P.M.	Ecology A 10–11 A.M. Vital Statistics A2 11.15 A.M.– 12.45 P.M.	

TABULAR VIEW

APRIL (March 25–April 27)		MAY (April 29–May 25)	
Monday	Control of Syphilis and Gonorrhea 9–10 A.M. Ecology A 10.15–11.15 A.M. Industrial Hygiene A 2–4 P.M. (2–5 P.M. April 15)	Communicable Diseases B 9–11 A.M. Epidemiology B 9 A.M.–12 M. Field Training A and B 2–5 P.M. Applied Immunology 33A 2–5 P.M.	
Tuesday	Epidemiology A 9–11 A.M. Vital Statistics A2 11.15 A.M.– 12.45 P.M. Epidemiology A 2–5 P.M.	Epidemiology B 9 A.M.–12 M. Field Training A All day	
Wednesday	Control of Syphilis and Gonorrhea 9–10 A.M. Ecology A 10.15–11.15 A.M. Industrial Hygiene A 2–4 P.M. (2–5 P.M. April 17, 24)	Communicable Diseases B 9–11 A.M. Epidemiology B 9 A.M.–12 M. Field Training A and B 2–5 P.M. Applied Immunology 33 A 2–5 P.M.	
Thursday	Epidemiology A 9–11 A.M. Vital Statistics A2 11.15 A.M.– 12.45 P.M. Communicable Diseases A 3–5 P.M. (March 28, April 11, 25)	Epidemiology B 9 A.M.–12 M. Field Training A All day	
Friday	Control of Syphilis and Gonorrhea 9–10 A.M. Ecology A 10.15–11.15 A.M. Industrial Hygiene A 2–4 P.M. (2–5 P.M. Mar. 29)	Communicable Diseases B 9–11 A.M. Epidemiology B 9 A.M.–12 M. Field Training A and B 2–5 P.M. Applied Immunology 33 A 2–5 P.M.	
Saturday	Epidemiology A 9–11 A.M. Vital Statistics A2 11.15 A.M.– 12.45 P.M.	Field Training A and B (Seminar) 9 A.M.–12M.	

MAY

All day, Mondays through Fridays and Saturday mornings

Child Health B
Nutrition B
Occupational Dermatoses
Control of Syphilis and
Gonorrhea

